

ABSTRACT OF THE DISCLOSURE

The present invention relates to novel peptides with increased + charge and hydrophobicity by substituting one or more amino acids of CA-MA peptide 5 in which cecropin A (CA) and magainin 2 (MA) were conjugated and pharmaceutical compositions containing thereof. More precisely, the present invention relates to synthetic peptides prepared by substituting one or more amino acids of CA-MA peptide represented by the 10 SEQ. ID. NO: 1 with amino acids having + charge and hydrophobicity and anti-bacterial, anti-fungal and anticancer compositions containing thereof. The synthetic peptides of the present invention have no cytotoxicity but have excellent anti-bacterial, anti- 15 fungal and anticancer activity, leading in an effective use thereof as a safe anticancer agent and antibiotics.